

NEWSPACE MARKET · COMPANY PROFILE



Orbit Fab

United States · founded 2018 · orbitfab.com

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WITH DATASHEETS

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as of 20 August 2026



Orbit Fab

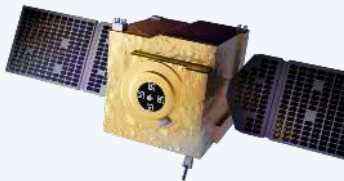
Orbit Fab is a San Francisco, California-based in-space refueling company pioneering the infrastructure for satellite propellant resupply in orbit. The company is developing RAFTI (Rapid Attachable Fluid Transfer Interface) — a standardized propellant transfer port designed to become the industry standard for satellite refueling, analogous to how USB standardized data connectors on Earth. Orbit Fab's vision is to create a gas-station-in-space network, starting with hydrazine depots in key orbital regimes. By enabling satellite operators to refuel their spacecraft rather than decommissioning them when propellant runs out, Orbit Fab can dramatically extend satellite lifespans, reduce space debris, and lower the lifetime cost of satellite operations. The company has launched demonstration missions and signed commercial agreements with satellite operators and the US Space Force. Backed by notable investors including Lockheed Martin Ventures, Toyota Ventures, and the US Defense Innovation Unit, Orbit Fab is building toward a future where orbital propellant depots are as routine as fuel stations on Earth — a foundational piece of infrastructure for a thriving in-space economy.

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Services

Full-Service Refueling Orbit Fab designs, plans, and executes the entire refueling service, from hardware integration to mission optimization and final fuel delivery.	In-Space Fuel Delivery Orbit Fab's fuel shuttles deliver fuel directly to RAFTI™-equipped spacecraft anytime, anywhere, in any orbit.
Mission Planning Software (UMPIRE) Orbit Fab's UMPIRE mission planning software optimizes refueling logistics to best serve and augment customer mission goals.	Rendezvous, Proximity Operations, and Docking (RPO) Orbit Fab offers reliable RPO solutions using their FLATIRONs technology for cooperative docking and refueling.

Product catalogue



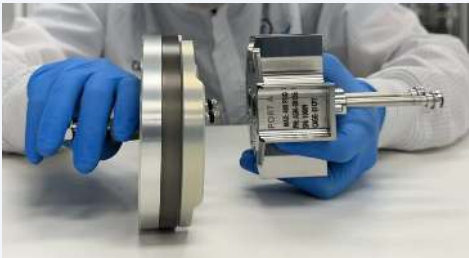
ORBIT FAB

In-Space Fuel Delivery Service (Hydrazine)

Orbit Fab offers in-space fuel delivery services, initially providing hydrazine to RAFTI™-equipped spacecraft in GEO starting in 2025.

Propellant Type (Initial Offering)	Hydrazine
Availability (Hydrazine in GEO)	2025
Delivery Capacity (Hydrazine in GEO)	100kg
Estimated Cost (100kg Hydrazine in GEO)	\$20M
Refueling Interface	RAFTI™ (Rapidly Attachable Fluid Transfer Interface)
Mission Planning Software	UMPIRE
Government Programs Backed By	05 US and International Government Programs

price on request



ORBIT FAB

RAFTI Ground Coupling (Pre-Launch Fueling Adapter)

The RAFTI Ground Coupling is Orbit Fab’s launch-site fueling adapter that allows the RAFTI satellite refueling port to function as a standard fill-and-drain valve during grou

Compatible Interface	RAFTI (Rapidly Attachable Fluid Transfer Interface)
Flow indication	Visual operation indicators
FOD mitigation	Fully enclosed chassis
Flow channels	Independent flow per valve core (dual)
Compatible propellants	Hydrazine, Xenon, Krypton, H2O2, Water, Propene/Ethane
Integration	Compatible with existing ground propellant servicing infrastructure
System TRL	TRL 8 (flight qualified RAFTI system)

TRL 8

price on request

[datasheet](#)

Contact Orbit Fab

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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